

**ABSTRACT**

A reflector for focusing light emitted from a light source in a generally planar  
2 direction is disclosed. The reflector is matched with the light source that is preferably a  
light emitting diode (LED) mounted on a substrate. The reflector is mounted over the  
4 LED on the substrate. The reflector is made of a clear material. The reflector has a semi-  
cylindrical front surface and a back surface with an indentation that is compatible with  
6 the light source. The reflector has a top reflecting surface divided into two quadrants  
and a bottom reflecting surface divided into two quadrants. The top quadrants and  
8 bottom quadrants are symmetrical in shape and reflect light emitted from the light source  
in a substantially horizontal plane. The reflecting surfaces may be TIR based or they may  
10 be coated with a reflective material in order to focus light from the LED.